

WELCOME!

Welcome to The Micro-Scoop, your Microbiology and Immunology Department newsletter. This premier issue has been created and developed by Microbiology and Immunology students. The newsletter will be published quarterly with fall, winter, spring, and summer issues.

The Micro-Scoop is a means by which everyone in the department can celebrate in the achievements of his or her colleagues and also share in their good news. Additionally, the newsletter will welcome new members, bid adieu to those leaving us, and bring attention to upcoming events and opportunities of particular interest to members of the department.

A full color version of The Micro-Scoop is available from a link on the department website

(http://medschool.umaryland.edu/microbiology/). Through the newsletter, prospective students and other visitors to our website may be better able to assess not only the diversity and caliber of research being performed here, but also the opportunities available in our training program and the overall character of the department.

We thank everyone who contributed to the premier issue of The Micro-Scoop. Future contributions, comments and suggestions should be directed to members of the editorial board listed on the second page of the insert. We hope you enjoy The Micro-Scoop.

DEPARTURES & ARRIVALS

DEPARTING STAFF:

Arnd Lentschat, Ph.D. (Vogel) is now a postdoc at the Research Center of Borstel in Germany, in the Department of Immunology and Cell Biology.

Xin Li, Ph.D. (Mobley) is now a post-doc at Yale School of Medicine, in the lab of Dr. Erol Fikrig in the Section of Rheumatology of the Department of Internal Medicine.

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DEPARTMENT INFORMATION

Department of Microbiology and Immunology University of Maryland School of Medicine 655 West Baltimore Street Baltimore, Maryland 21201 Phone: 410-706-7110 Fax: 410-706-2129 http://medschool.umaryland.edu/microbiology/ <u>Chair:</u> Jan Cerny, M.D, Ph.D.

<u>Graduate Program Coordinator:</u> Harry L.T. Mobley, Ph.D.

Rebecca Lohr, Research Assistant (Flajnik) works for a pharmaceutical company in Wilmington, North Carolina.

Alfredo Torres, Ph.D. (Kaper) has begun work as an assistant professor in the Department of Microbiology and Immunology at the University of Texas Medical Branch in Galveston, Texas.

Anjana Yadav, Ph.D. (Livak) is now a post-doc with Dr. Thomas J. Lang in the Division of Rheumatology and Clinical Immunology here at the School of Medicine.

DEPARTING FACULTY:

Peter Calabresi, M.D.

MEET OUR NEW STUDENTS:



Kelly Baker, originally from Oklahoma, graduated from Oral Roberts University with a BS in Biology. Kelly has worked in San Diego at The Burnham Institute, a non-profit cancer research institute, in a protein crystallography lab. Her research experience has also

included investigating the impact of conditional knockouts of genes in the heart, using transgenic mice. She is interested in emerging infectious diseases. In her spare time, Kelly enjoys outdoor activities such as surfing, rock climbing, trail running, and mountain biking.

Nicholas Bushar, from Mt. Laurel, NJ, graduated from Loyola College with a BS in Biology. He has worked on studying bacterial contamination of the Eastern Quahog clam, and on the FtsZ cell division protein



in Bdellovibrio bacteria. Nicholas enjoys soccer (both watching and playing), working out at the gym, and bike riding.



Sheila Dreher was raised in Manila, Philippines and Winterthur, Switzerland. She earned a BA from the College of Wooster in Ohio with a major in Biology. She later completed an MA in teaching secondary biology from the College of Notre Dame of

Maryland. She taught math and science in the Washington, DC, and later taught biology at Elizabeth Seton High School in Bladensburg, MD. Sheila has spent a summer working at NIH, cloning and sequencing various salivary proteins of the sand fly. Her hobbies include running, biking, hiking, taking naps, watching movies, going to musicals and the opera, and traveling.

Ranjani Prabhakara was

born in Calgary, Alberta, and raised in Maryland. She graduated from the University of Maryland, College Park, with a BA in Psychology. She later returned and completed a BS in



Microbiology. Her research experience includes work on HIV vaccines at the Vaccine Research Center at NIH. In her spare time, Ranjani enjoys playing the violin and attending movies and theater.



Jason Harvey grew up in Northern Virginia and graduated from George Mason University with a BS in Chemistry and a concentration in Biochemistry. Jason spent a summer at the Science Summer School at

Cambridge University, UK, in a genetics lab. Later, he worked in a toxicology lab at the National Heart, Lung and Blood Institute at the NIH. While he is interested in learning about the evolutionary biology of HIV and other viruses, he is open to other research paths. His hobbies include reading, playing drums and guitar, biking, traveling, and spending time with his girlfriend, Mel, and their Basset Hound, Flash.

Zach Roberts (MD/PhD student) was born in Utah and grew up near Salt Lake City and in Gaithersburg, MD. He earned a BS in Microbiology from the University of Maryland, College Park. His research experience includes



helping with clinical vaccine trials at the Naval Medical Research Center, as well as research on neonatal diabetes at USUHS. Zach is interested in working in immunology. His hobbies include photography, mountain biking, snowboarding, and cooking.

Maura Strauman was born and raised in the



Philadelphia area. She graduated from Ursinus College in Pennsylvania with degrees in Biology and Spanish. Maura has worked on a transgenic mouse model for ALS at the Physiology

Department of the Medical School

at the University of Pennsylvania. She has also worked with clonal hybrid polyploidal fish. She is interested in pursuing research in bacterial pathogenesis. In her spare time, Maura enjoys playing the clarinet, studying karate, and practicing Spanish.

Michelle Weber has lived in Kentucky, upstate New York, and, most recently, Eldersburg, MD. She earned a BS in Molecular Biology from Towson University. Michelle's research experience includes



work on vaccines against malaria and anthrax, while she was working at Towson and at NIH/FDA. Her interests include playing ultimate Frisbee, and she is looking forward to decorating the house she and her boyfriend plan to buy soon.

NEW POST-DOCTORAL FELLOWS

Agnes Abiola Awomovi, Ph.D. (Vogel) was born and raised in Nigeria. She received an undergraduate degree in Microbiology at the University of Lagos, Akoka, and a Masters of Science in Medical Microbiology at the College of Medicine of the University of Lagos, Nigeria. Dr.Awomoyi studied the molecular biology of the human leukocyte antigens at the Arthritis and Rheumatism Council's Epidemiology Research Lab at the University of Manchester, UK. Subsequently, she joined the Medical Research Council Labs in Fajara, Gambia, where she worked on the epidemiology of Rous sarcoma virus. She earned a PhD from the Open University, UK, working on the genetics of susceptibility to tuberculosis. Dr. Awomovi has received post-doctoral training at the University of Maryland College Park, working on the genetics of susceptibility to infectious diseases and its relevance to human evolution. Her work with Dr. Vogel's lab will involve studying intracellular signaling leading to the induction of genes that are involved in macrophage activation.

Michael Criscitiello, Ph.D. (Flajnik) is from New Bern, North Carolina. He obtained his undergraduate degree at UNC-Chapel Hill, a Masters at East Carolina University, and a PhD at the University of Miami. His PhD work involved work on polymorphic T cell receptor constant domains in damselfish. In Martin Flajnik's group, Dr. Criscitiello will look at T cells in the nurse shark and MHC Class I in the frog *Xenopus*. In his spare time, he enjoys keeping fish tanks and trying to figure out his two-year old.

Rogeria Keller, Ph.D. (Kaper) is originally from São Paulo, Brazil. She earned her undergraduate degree at the University of Santo Amaro in São Paulo, a Masters at the Paulist School of Medicine of the Federal University of São Paulo, and Her PhD at the University of São Paulo. Part of her PhD work was done in the UK, at the University of Birmingham and the University of Nottingham. At the Kaper lab, she is studying the genetic differences between typical and atypical EPEC. Dr. Keller's favorite activities are working out at the gym, traveling, and going to the movies.

Mary-Jane Lombardo, Ph.D. (Kaper) is from Virginia. Her undergraduate degree is from the College of William and Mary, and her PhD is from the University of Illinois at Champaign-Urbana. Her work in the Kaper lab involves studying horizontal gene transfer in *Vibrio*. In her spare time, Dr. Lombardo enjoys working on ceramics.

Ichiro Tatsuno, Ph.D. (Kaper) is from Tokyo, Japan. He obtained his Bachelor's and PhD degrees from Nagoya University. His previous post-doctoral training was done at the University of Tokyo. His work with the Kaper group involves studying mechanisms by which EPEC adheres to intestinal tissue. Dr. Tatsuno enjoys baseball and soccer and hopes to find teams to join so he can play these sports!

New Research Technicians:

Suzanne Grim (Flajnik) is from Reisterstown, Maryland. She is currently a student in the Masters Degree Biomedical Research track of the Department of Medical and Research Technology. Suzanne earned her undergraduate degree at Towson University. With Dr. Flajnik's lab, she will be doing mapping studies to find the relative locations of MHC genes in the frog *Xenopus*. Her favorite activities include doing crossword puzzles and sleeping, when she has the time.

Andrew Kane (Flajnik) is from Timonium, Maryland. He recently graduated from Loyola College and plans to attend medical school soon. In the Flajnik lab, Andrew will be helping conduct research on vaccines against anthrax and Ebola. In his spare time, he enjoys playing golf and running.

NEW FACULTY:

All are secondary appointees.

Sergei Atamas, M.D., Ph.D. (Assistant Professor of Medicine, Division of Rheumatology and Clinical Immunology) received an M.D. degree from the Crimea Medical Institute, USSR, and a Ph.D. degree from the 1st Moscow Medical Institute. For several years, he did research on conformational changes of proteins in diseases and taught biochemistry to medical students in the Crimea Medical Institute. His postdoctoral fellowship in Clinical Immunology was done here at the School of Medicine. His current research interests involve mechanisms of tissue fibrosis. Particularly, Dr. Atamas is interested in the role of profibrotic and antifibrotic cytokines and cell surface molecules in fibrotic processes as well as the interaction between the immune system and connective tissue. Dr. Atamas also has extensive experience with computer programming for the needs of medico-biological research. His hobbies include hiking and sightseeing, and his favorite author is Erich Fromm.

Leslie W.J., Baillie, Ph.D.

Associate Professor

Medical Biotechnology Center

Patrik Bavoil, Ph.D (Associate Professor, Department of Biomedical Sciences, Dental School) was born and raised in the northern burgundy region of France. After earning an undergraduate degree in biochemistry in Lyon, he moved to the US and began work in a lab at UC Berkeley. He soon matriculated as a graduate student, and he earned his PhD working on *E. coli* porins and the proteins involved in maltose transport. He began working on *Chlamydia* as a post-doc in the lab of Julius Schachter at UCSF. Dr. Bavoil then moved to the lab of Stanley Falkow at Stanford University, where he worked on the pathogenesis of both *Chlamydia* and enteroinvasive *E. coli*. He has held faculty positions at the University of Rochester and at the London School of Hygiene and Tropical Medicine, and he spent a one-year sabbatical at the Institut Pasteur in Paris. Dr. Bavoil's lab is currently involved in studies of chlamydial molecular pathogenesis (type III secretion, invasin, and polymorphic membrane proteins), chlamydiaphages, and chlamydial genomics. His hobbies include his two children (Julien, 12, and Lei-Lei, 10), his dog, Noodle... and transcontinental moving.

Matthew Fenton, Ph.D. (Director of Research, Division of Pulmonary & Critical Care Medicine) was born and raised in Connecticut. He received a BS in Biology from the University of Connecticut and a PhD in Biochemistry from Boston University. His post-doctoral studies were at the Massachusetts Institute of Technology, where he studied the transcriptional and post-transcriptional regulation of interleukin-1 gene expression in monocytic cells. Dr. Fenton later joined the faculty at the Boston University School of Medicine. His current research focuses predominantly on understanding the function of mammalian Toll-like receptor proteins in innate and adaptive immune responses against mycobacterial infection, and in several mouse models of acute lung injury. Dr. Fenton enjoys sailing (especially in the Lesser Antilles). He also enjoys playing blues harmonica and electric guitar, and he was the co-founder of a Boston blues band. He has co-authored a paper in the Journal of Irreproducible Results showing that the sequence ELVIS (single letter amino acid codes) is significantly underrepresented in the human genome. Unfortunately, more recent bioinformatic analysis of the genome has identified additional ELVIS-containing proteins, thus challenging the statistical importance of the original findings.

GRANTS AWARDED

Dr. Marvin Reitz was awarded an **Ro1** grant entitled: "Pathogenic mechanisms of HHV-8 ORF74."

Dr. Helen Dooley, Dr. Martin Flajnik and their collaborator **Dr. Leslie Baillie** (MBC-UMBI) were awarded an **R21** NIH grant entitled "Highly stable, anthrax-specific shark antibody fragments." This is a two-year grant designed to generate an antibody response to anthrax toxin and isolate the specific variable regions by phage display for eventual diagnostic tests.

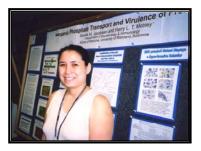
Meetings, Travel & Awards

The 25th-annual Graduate Research Conference

(GRC) was held Thursday, April 17 at the University of Maryland Baltimore. GRC is sponsored by the Graduate Student Associations of UMB and UMBC. Students present the results of their ongoing research or a literature review (for students in the beginning phases of their research). Sessions run concurrently throughout the day, with a luncheon, keynote address, and reception. Many Microbiology and Immunology students presented their work orally (Angela Jansen, Fran Okeye and Jennifer Snyder) and via poster presentations (Laurel Burral, Sandra Jacobsen, Chelsea Lane, Laura Quinn Leverton, Vaishali Mane).

Awards were presented to:

- Laurel Burral 1st place poster
- Sandra Jacobsen 1st place poster
- Angela Jansen 2nd place talk
- Chelsea Lane 2nd place poster
- Laura Quinn Leverton 1st place poster
- Vaishali Mane 1st place talk



Sandra Jacobsen at her GRC 1st place poster.

Dr. Martin Flajnik organized a retirement symposium for his mentor, **Dr. Louis Du Pasquier**, in San Francisco, CA, on 22-23 May.

Dr. Martin Flajnik was an ad hoc reviewer on three NIH Study Sections this summer.

Dr. Maria Salvato gave a talk on "Detection of hemorrhagic fever by microarray analysis of blood cell mRNA" for the **Bio2003 Conference** held in Washington, DC, June 21-25. 40,000 people attended the conference, which seeks to promote collaborations between industrial and academic scientists.

2003 Ollie Eylar Award for Outstanding Graduate Student

This award honors Ollie Eylar, a distinguished faculty member in the Department of Microbiology and Immunology. Dr. Eylar retired in 1996 and was universally recognized as an outstanding lecturer and colleague.

This year's recipient, **Angela Jansen**, published her first author work in Infection and Immunity in 2003. She has coauthored two other peer-reviewed publications and served as first author for a book chapter. She has presented her work three separate years at both the Graduate Research Conference and the Annual Meeting of the American Society for Microbiology. Angela has also been active in the Graduate Student Association as well as departmental student activities.

The 103rd American Society for Microbiology General Meeting was held in Washington, D.C. in May. Many members of our department attended the annual meeting. Those who presented posters include: Donnenberg lab - Dr. Eric Buckles Mobley lab - Laurel Burral, Gregg Davis, Dr. Susan Heimer, Stephanie Himpsl, Angela Jansen, Jennifer Snyder Nataro lab - Dr. Edward Dudley, Susan Harrington, Jorge Velarde

Laurel Burral received a \$500 ASM Student Travel Award to attend the meeting.

The 5th International Symposium on Shiga Toxin (Verocytotoxin) – Producing Escherichia coli Infections was held in Edinburgh, Scotland, June 8-11. Dr. Jim Kaper is the Chair of the International Steering Committee that organizes these symposia. Dr. Kaper also gave one of the keynote talks, during which he presented recent data of current members and recent alumni of the Kaper laboratory including: Dr. Jorge Girón, Kristen Kanack, Dr. Vanessa Sperandio, and Dr. Alfredo Torres.

Dr. Martin Flajnik was invited as a speaker at the Evolution, Immunity, and Infectious Diseases meeting in Switzerland from 22-25 May and at the FASEB summer research conference entitled "Lymphocytes and the Immune System: Molecular, Cellular, and Integrative Mechanisms" in Tucson, Arizona, 28 June- 3 July. **Dr. Flajnik** also gave a seminar in Berlin on 26 May at the **Charite Institute** entitled "Evolution of the MHC."

Members of **Dr. Martin Flajnik's** laboratory, **Michelle Cooper, Dr. Helen Dooley, Dr. Ashley Haines,** and **Dr. Yuko Ota**, presented their current work in talks at the **International Society for Developmental and Comparative Immunology Meeting** held in St. Andews, Scotland in July.



Dr. Yuko Ota, Dr. Ashley Haines, Dr. Mike Criscitiello, Dr. Helen Dooley, Michelle Cooper.

Modesta Ndejembi participated in the **Gordon Conference on Malaria** held in July at Oxford University in the United Kingdom.

PUBLICATIONS

Jan.1 to Aug.15, 2003. Publications having department students as authors/co-authors are designated with a ▼. Bold-face is used to identify department members. (Do you not see your work here? - Don't forget to submit new publications to The Micro-Scoop in time for the next issue!)

Azad AF, Radulovic S. Pathogenic rickettsiae as bioterrorism agents. Ann N Y Acad Sci. 2003 Jun;990:734-8.

Chen Y, Hallenbeck JM, Ruetzler C, Bol D, **Thomas K**, Berman NE, **Vogel SN**. Overexpression of monocyte chemoattractant protein 1 in the brain exacerbates ischemic brain injury and is associated with recruitment of inflammatory cells. J Cereb Blood Flow Metab. 2003. Jun;23(6)748-55.

Coker C, Majid M, Radulovic S. Development of *Rickettsia prowazekii* DNA vaccine; cloning strategies. Ann N Y Acad Sci. 2003 Jun;990:757-64.

Crawford JA, Krukonis ES, DiRita VJ. Membrane localization of the ToxR winged-helix domain is required for TcpP-mediated virulence gene activation in *Vibrio cholerae*. Mol Microbiol 2003, Mar;47(5):1459-73.

Cuesta N, Salkowski CA, Thomas KE, Vogel SN. Regulation of lipopolysaccharide sensitivity by IFN regulatory factor-2. J Immunol. 2003. Jun 1:170(11):5739-47.

Dobrovolskaia MA, Medvedev AE, Thomase KE, Cuesta N, Toshchakov V, Ren T, Cody MJ, Michalek SM, Rice NR, **Vogel SN**. Induction of *in vitro* reprogramming by Toll-like receptor (TLR)2 and TLR4 agonists in murine macrophages: effects of TLR "homotolerance" versus "heterotolerance" on NF-kappa B signaling pathway components. J Immunol. 2003 Jan 1:170(1):508-19.

Dooley H, Flajnik MF, and Porter AJ. Selection and characterization of naturally occurring single-domain (IgNAR) antibody fragments from immunized sharks by phage display. Mol Immunol. 2003. 40: 25-33.

▼ Dutta PR, Sui BQ, Nataro JP. Structure-function analysis of the enteroaggregative E. coli plasmid encoded toxin autotransporter using scanning linker mutagenesis. J Biol Chem. 2003 Jul 23 [Epub ahead of print]

Gao JJ, Diesl V, Wittmann T, Morrison DC, Ryan JL, **Vogel SN**, Follettie MT. Bacterial LPS and CpG DNA differently induce gene expression profiles in mouse macrophages. J Endotoxin Res. 2003;9(4):237-43.

Gaywee J., Radulovic S., Sacci J., Azad A.F. Subcellular localization of *Rickettsia prowazekii* InvA. Am J Trop Med Hyg. 2003. 68(1):92-96.

▼ Guo,H.-G., **Sadowska,M**., Reid,W., Tschachler,E., Hayward,G.S., and **Reitz,M.S.** Kaposi's Sarcoma-Like Tumors in a Human Herpesvirus 8 ORF74 Transgenic Mouse. J Virol. 2003. 77, 2631-2639.

Heldwein KA, Liang MD, Andresen TK, **Thomas KE**, Marty AM, **Cuesta N**, **Vogel SN**, **Fenton MJ**. TLR2 and TLR4 serve distinct roles in the host immune response against *Mycobacterium bovis* BCG. J Leukoc Biol. 2003. Aug;74(2):277-86.

Hohman VS, Stewart SE, Rumfelt LL, Greenberg AS, Avila DW, **Flajnik MF**, Steiner LA. J chain in the nurse shark: implications for function in a lower vertebrate. J Immunol. 2003 Jun 15;170(12):6016-23.

▼ Jansen, A. M., Lockatell, C. Virginia, Johnson, David E., Mobley, Harry L. T. Visualization of *Proteus mirabilis* Morphotypes in the Urinary Tract: the Elongated Swarmer Cell Is Rarely Observed in Ascending Urinary Tract Infection. Infect. Immun. 2003 71: 3607-3613.

Martin M, Schifferle RE, **Cuesta N**, **Vogel SN**, Katz J, Michalek SM. Role of the phosphatidylinositol 3-kinase-Akt pathway in the regulation of IL-10 and IL-12 by *Porphyromonas gingivalis* lipopolysaccharide. J Immunol. 2003. Jul 15;171(2):717-25. **Medvedev AE**, Lentschat A, Kuhns DB, Blanco JC, Salkowski C, Zhang S, Arditi M, Gallin JI, Vogel SN. Distinct mutations in IRAK-4 confer hyporesponsiveness to lipopolysaccharide and interleukin-1 in a patient with recurrent bacterial infections. J Exp Med. 2003. Aug 18:198(4):521-31.

Medvedev AE, Vogel SN. Overexpression of CD14, TLR4, and MD-2 in HEK 293T cells does not prevent induction of *in vitro* endotoxin tolerance. J Endotoxin Res. 2003.;9(1):60-4.

▼ Pal R, **Taylor B**, Foulke JS, Woodward R, Merges M, Praschunus R, Gibson A, **Reitz M**. 2003. Characterization of a Simian Human Immunodeficiency Virus Encoding the Envelope Gene from the CCR5-Tropic HIV-1 Ba-L. JAIDS. 33: 300-307.

▼ Pati S, Foulke JS Jr, Barabitskaya O, Kim J, Nair BC, Hone D, Smart J, Feldman RA, Reitz M. Human herpesvirus 8-encoded vGPCR activates nuclear factor of activated T cells and collaborates with human immunodeficiency virus type 1 Tat. J Virol. 2003 May;77(10):5759-73.

Pinhal-Enfield G, Ramanathan M, Hasko G, **Vogel SN**, Salzman AL, Boons GJ, Leibovich SJ. An angiogenic switch in macrophages involving synergy between Toll-like receptors 2,4,7, and 9 and adenosine A(2A) receptors. Am J Pathol. 2003. Aug; 163(2):711-21.

Qureshi N, Perera PY, Shen J, Zhang G, Lenschat A, Splitter G, Morrison DC, Vogel SN. The proteasome as a lipopolysaccharidebinding protein in macrophages: differential effects of proteasome inhibition on lipopolysaccharide-induced signaling events. J Immunol. 2003. Aug 1;171(3):1515-25.

▼ Read TD, Peterson SN, Tourasse N, Baillie LW, Paulsen IT, Nelson KE, Tettelin H, Fouts DE, Eisen JA, Gill SR, Holtzapple EK, Okstad OA, Helgason E, Rilstone J, Wu M, Kolonay JF, Beanan MJ, Dodson RJ, Brinkac LM, Gwinn M, DeBoy RT, Madpu R, Daugherty SC, Durkin AS, Haft DH, Nelson WC, Peterson JD, Pop M, Khouri HM, Radune D, Benton JL, Mahamoud Y, Jiang L, Hance IR, Weidman JF, Berry KJ, **Plaut RD**, Wolf AM, Watkins KL, Nierman WC, Hazen A, Cline R, Redmond C, Thwaite JE, White O, Salzberg SL, Thomason B, Friedlander AM, Koehler TM, Hanna PC, Kolsto AB, Fraser CM. The genome sequence of *Bacillus anthracis* Ames and comparison to closely related bacteria. Nature. 2003 May 1;423(6935):81-6.

Rhee SH, Jones BW, **Toshchakov V, Vogel SN, Fenton MJ.** Tolllike receptors 2 and 4 activate STAT1 serine phosphorylation by distinct mechanisms in macrophages. J Biol Chem. 2003. Jun20;278(25):22506-12

Sabroe I, Prince LR, Jones EC, Horsburgh MJ, Foster SJ, **Vogel SN**, Dower SK, Whyte MK. Selective roles for Toll-like receptor (TLR)2 and TLR4 in the regulation of neutrophil activation and life span. J Immunol. 2003.May 15;170(10):5268-75.

Sabroe I, Read RC, Whyte MK, Dockrell DH, **Vogel SN**, Dower SK. Toll-like receptors in health and disease: complex questions remain. J Immunol. 2003. Aug 15:171(4):1630-5.

Sperandio V, Torres AG, Jarvis B, **Nataro JP**, **Kaper JB**. Bacteriahost communication: the language of hormones. Proc Natl Acad Sci U S A. 2003 Jul 22;100(15):8951-6. Epub 2003 Jul 07.

Tatsuno I, Nagano K, Taguchi K, Rong L, Mori H, Sasakawa C. Increased adherence to Caco-2 cells caused by disruption of the *yhiE* and *yhiF* genes in enterohemorrhagic *Escherichia coli* 0157:H7. Infect Immun 2003 May;71(5):2598-606.

Terado T, Okamura K, **Ohta Y**, Shin DH, Smith SL, Hashimoto K, Takemoto T, Nonaka MI, Kimura H, **Flajnik MF**, Nonaka M. Molecular Cloning of C4 Gene and Identification of the Class III Complement Region in the Shark MHC. J Immunol. 2003 Sep 1;171(5):2461-2466.

Toshchakov V, Jones BW, Lentschat A, Silva A, Perera PY, Thomas K, Cody MJ, Zhang S, Williams BR, Major J, Hamilton TA, Fenton MJ, Vogel SN. TLR2 and TLR4 agonists stimulate unique repertoires of host resistance genes in murine macrophages: interferon-beta-dependent signaling in TLR4-mediated responses. J Endotoxin Res. 2003. 9(3):169-75.

Vogel SN, Fenton M. Toll-like receptor 4 signalling: new perspectives on a complex signal-transduction problem. Biochem Soc Trans. 2003 Jun;31(Pt3):644-8.

Zhou X, Giron JA, Torres AG, Crawford JA, Negrete E, Vogel SN, Kaper JB. Flagellin of enteropathogenic *Escherichia coli* stimulates interleukin-8 production in T84 cells. Infect Immun. 2003. Apr;71(4):2120-9.

GRADUATES

Christopher Pritchett, Spring 2003. Christopher did his dissertation work in the lab of Dr. Trucksis where he studied the pathogenesis of *Mycobacterium tuberculosis*. Christopher is currently pursuing a postdoctoral position in Dr. Kaper's lab where he will be studying quorum sensing in *Vibrio cholerae*.

Carrie Poore, Spring 2003. Carrie graduated with a degree in Molecular and Cell Biology and did her dissertation work in the Mobley lab. During her 5.5 years of graduate school she commuted about 5000 hours on the MARC train to get to and from the University. She is currently doing her post-doctoral work in Dr. Mobley's lab where she is working on the regulation of *Proteus mirabilis* urease gene cluster by UreR and H-NS. In the future Carrie would like work for the government or in industry.

Subhendu Basu, Spring 2003. Subhendu graduated with a degree in Pathology and did his thesis work in Dr. Cerny's lab. He is currently working as a post-doctoral fellow in the lab of Dr. Fenton focusing on innate immunity and *Mycobacterium tuberculosis*.

Haifeng Song, Summer 2003. Haifeng did her dissertation work in Dr. Cerny's lab and is currently working at NCI as a post-doctoral fellow where she is studying the mechanism of ATM-/- chromosome translocation and the roles of some signaling molecules in B cell development/function.

Colin O'Connell, Spring 2003. Colin did his graduate research in Dr. Donnenberg's lab and is starting a postdoctoral position at the University of California, Santa Barbara this September.

ALUMNI – WHERE ARE THEY NOW?

Sayed F. Abdelwahab graduated from UMB in 2002. He did his dissertation work in Dr. Lewis' lab where he studied the production of anti-HIV-1 factors during antigen-specific differentiation of naïve human CD4+ T cells *in vitro*. He has been a Post-doctoral Research Associate in Dr. Lewis' lab since October of 2002 and is also employed as a lecturer at the El-Minia University in Egypt. The main focus of his research is the ability of CD4 T cells to suppress HIV-1 infection. Sayed was born in El-Minia, Egypt and currently resides in Baltimore with his wife and their two daughters: Basmah (4.5 years old) and Summer (13 months old).

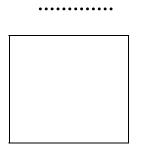


Garet Lahvis graduated from Dr. Cerny's lab in the summer of 1997. He subsequently joined the laboratory of Chris Bradfield at the McArdle Laboratory for Cancer Research at the University of Wisconsin where he found a role for the aryl hydrocarbon receptor in vascular development. He is currently an assistant professor in the Department of Surgery at the University of Wisconsin where he studies post-natal development of capillary networks in the brain and how pattern differences can influence social behavior in mice.

CONGRATULATIONS!!!



Michelle Cooper (Flajnik lab) was engaged to Bryan Greenwald on April 3, 2003. The wedding will be held September 18, 2004.



Rebecca Gerth (Mobley lab) was engaged to Sean Brady on April 20, 2003. The wedding will be held July 24, 2004.



Gloria Kruba, now **Smedley** (administrator) married Jim Smedley on June 29, 2003. The wedding was a small outdoor event with only the closest family attending.

Adam Crawford (Kaper lab) married Tara Novy on May 3, 2003. They are expecting their first child in January.

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Calvin Williams (Azad lab) married Stacey Simmons (Ph.D student at the Pharmacy School at UMB) on July 5, 2003 in Pensacola, Florida.



Francesca Okoye (Farber lab) won two Ms. Figure competitions this spring and qualified for Nationals, which will be held on November 15, 2003.



Harry Mobley's son Blake released his band's ("Ponded") new CD titled "Fill The Room" on August 8, 2003. For sample songs and information visit their web site: www.ponded.com.



Sandy Jacobsen's (Mobley lab) daughter, Alex, was selected to play on the Maryland District 4 South 9 to 10 year old girls Little League Softball All Stars team. The team won the Maryland District 4 championships. Alex is the tall girl standing to the right of the sign while Sandy, who helped to coach the team, is kneeling in the front.

••••



Anna Elizabeth, daughter of **Brian Taylor** (Reitz lab) and his wife Christine was born on March 11, 2003. She was 21 inches and 9 lbs.



Mike Mays (Carbonetti lab) married Jen on March 15, 2003.

MARK YOUR CALENDAR

MICROBIOLOGY AND IMMUNOLOGY DEPARTMENT SEMINAR SERIES FALL 2003 Thursdays at 4pm

Comt 10	CTREASED VOCES DY D	Defective Tell like Decenter (TID) Give alies a in a
Sept. 18	STEFANIE VOGEL, PH.D.	Defective Toll-like Receptor (TLR) Signaling in a
~	University of Maryland, Baltimore	Patient with Severe, Recurrent Bacterial Infections
Sept. 25	THOMAS MALEK, PH.D.	Contrasting role for IL-2 in tolerance and
	Univ. of Miami School of Medicine	immunity
Oct. 2	VERNON BRUCE CARRUTHERS, PH.D.	The dynamics of Toxoplasma invasion
	Johns Hopkins Bloomberg School of	
	Public Health	
Oct. 9	ANTHONY T. MAURELLI, PH.D. Uniformed Services University of the	
	Health Sciences	
Oct. 16	STEVEN L. REINER, M.D.	Fashioning and Re-fashioning T Cell Fates
	Univ. of Pennsylvania School of Medicine	
Oct. 23	MARK SHIRTLIFF, PH.D.	A Global Analysis of Staphylococcus aureus
0	The Center for Biofilm Engineering	Biofilms
Oct. 30	WILLIAM A. PETRI, JR, M.D.	Adherence Invasion and Apoptosis by the
Ū		Protozoan Parasite Entamoeba histolytica
		5
Nov. 6	JANICE CLEMENTS, PH.D.	Role of IFN-beta in the Control of Acute CNS
	Johns Hopkins School of Medicine	Infection by the Simian Immunodeficiency Virus
Nov. 13	*	
1101110	ERIC T. HARVILL, PH.D.	
	Penn State University	
Nov. 20	MARK J. SOLOSKI, PH.D.	
	JHU School of Medicine	
Nov. 27	***THANKSGIVING***	***NO SEMINAR***
Dec. 4	VOLKER MAI, PH.D., M.P.H.	
	Univ. of Maryland, School of Medicine	
Dec. 11	EROL FIKRIG, PH.D.	
	Yale University School of Medicine	
I		

To be added to the Seminar Notification Email List please contact ckozi001@umaryland.edu

JOURNAL/DATA CLUBS		
Immunology	Tuesdays, 12pm (BRB 13-009)	mflajnik@som.umaryland.edu
Bagels & Data	Alt. Fridays, 10am (HSF418)	jcraw001@umaryland.edu
IHV	Monthly (IHV-Lightwell)	rkaminle@umaryland.edu

UNIVERSITY EMPLOYEE HOLIDAY SCHEDULE		
October 13, 2003	Columbus Day	
November 11, 2003	Veteran's Day	
November 27, 2003	Thanksgiving Day	
November 28, 2003	Thanksgiving Break	
December 25, 2003	Christmas Day	
December 26, 2003	Winter Break	
January 1, 2004	New Year's Day	

DEPARTMENT HAPPY HOURS

September 19, 2003	Ollie Eylar Awardee
October TBA	Azad Lab
November TBA	Fenton Lab

Submissions to THE MICRO-SCOOP

Please send contributions (as email attachments) for the winter issue to a member of the THE MICRO-SCOOP editorial board by **DECEMBER 1**. Submissions may be edited to fit in the allotted space. Please identify department members in the text.

UPCOMING OPPORTUNITIES

The University of Maryland-Baltimore is in the process of establishing a collaborative relationship in research and training with the Mahidol Faculty of Tropical Medicine in Bangkok, Thailand. A planning workshop is scheduled for Oct. 6-8 while the Dean and three faculty members are visiting our campus. Anyone interested in participating should contact either Tom Strickland at tstrick@epi.umaryland.edu or Kelly Getz at kgetz@epi.umaryland.edu. Mahidol has an extensive research and training program with many international collaborations. Faculty members conduct research on arboviral infections, zoonotic infections, enteric diseases, HIV/AIDS, opportunistic infections, food- and water-borne parasitic infections, and other infectious diseases endemic to Southeast Asia.

You are invited to submit an abstract and propose ideas for symposia and/or workshops for the **American Society for Microbiology's 2004 Biodefense Research meeting** to be held March 7-10, 2004 at the Baltimore Marriott Waterfront Hotel, Baltimore Maryland. The deadline to submit symposia ideas is September 19, 2003 and the deadline for abstract submission is January 15, 2004. Visit www.asmbiodefense.org to submit an abstract or a proposal.

The Call for Abstracts for the **104th ASM General Meeting** has been posted to the ASM website: http://www.asm.org/Meetings/index.asp?bid=736. Abstracts may be submitted from October 3 to December 11, 2003. A notice will be published on the website when the submission site is available.

THE MICRO-SCOOP EDITORIAL BOARD We welcome your comments and suggestions.

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Bagels And Data (BAD) Club.

Everyone interested in pathogenesis-related research is invited to attend and participate in BAD Club, held every other Friday in 418 HSF at 10 am. Presenters talk about their own research projects in an informal manner, and everyone eats free bagels!!

The scheduled speakers for this fall are:

August September September October October October November November December December	29 12 26 3 17 31 14 21 5 19	Dr. Adam Crawford Dr. Chris Vindurampulle Kristen Kanack Dr. Xin Zhou Dr. Fernando Ruiz Dr. Susan Heimer Jenn Smart Chelsea Lane Dr. Mary-Jane Lombardo Dr. Carrie Poore
December	19	Dr. Carrie Poore

FROM THE GRADUATE STUDENT ASSOCATION...

The Graduate Student Association (GSA) is already back at it for the 2003-2004 academic year! As most of you already know, for the past few years the Microbiology and Immunology Department has been very active in their representation on GSA, and this year is no different. Both Chelsea Lane and I (Andrew Hebbeler) are serving on the GSA Executive Committee, Chelsea in the position of Secretary and myself as Vice-President.

Graduate Student Orientation was the first big GSAorganized event of this year. The week included informational sessions for the new students as well as a number of recreational activities that included Orioles night, Latin dancing at the Havana Club, the spectacular Crab Feast, and a Happy Hour at Slider's. Everything was a smashing success!

We are in the process of planning events for the months to come. Please keep in mind that in addition to planning events specifically catered to graduate students, we also offer a number of awards, financial and otherwise, to recognize outstanding scholastic achievement as well as helping to defray the costs associated with academic travel. I urge you to take advantage of these awards. Find out if you qualify by checking the website

http://www.graduate.umaryland.edu/gsa.

If you have any ideas on how GSA can better represent you and our Department, please feel free to email your comments and concerns to either Chelsea (mlane002@umaryland.edu) or myself (ahebb001@umaryland.edu). We are both looking forward to the year ahead! - Andrew